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(54) Title: USE OF CROSS-LINKER AND COMPOSITIONS MADE THEREFROM

(57) Abstract: The invention provides a method of polymerizing or crosslinking cationically curable components using X-rays, gamma rays or electron beam as an energy source. As the initiator for the cationic polymerization, an onium gallate compound having an anion of the formula  $GaX_aR_b$ , wherein X is a halogen atom or a hydroxy group, R is an aryl group or a substituted aryl group, a and b are each represent an integer of 0 to 4 provided that the sum of a and b is 4 is disclosed. The invention also provides a composite material and a method for preparing the composite material using an electron beam and the onium gallate compound as an initiator. Finally, disclosed is a photoresist material containing the onium gallate compound as the acid generator or crosslinking initiator.

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According to International Patent Classification (IPC) or to both national classification and IPC

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C08G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	NECKERS DOUGLAS C ET AL: "Tetrakis(pentafluorophenyl)gallates (I)" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 41, no. 45, November 2000 (2000-11), pages 8669-8672, XP002160995 ISSN: 0040-4039 * the whole document *	1-36
X,P	US 6 166 233 A (NECKERS DOUGLAS C ET AL) 26 December 2000 (2000-12-26) claims	1-36
E	EP 1 136 533 A (GEN ELECTRIC) 26 September 2001 (2001-09-26) page 4, line 13 - line 19; claims 4-12; examples	1-36

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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# INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	US 5 124 417 A (FAROOQ OMAR) 23 June 1992 (1992-06-23) claims; tables -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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